

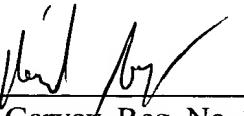
REMARKS

If there are any fees resulting from this communication, please charge the same to our Deposit Account No. 16-0820, our Order No.33234.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims have been amended as follows:

- 1        1. (amended) Method for identifying a [transient] momentary acoustic scene, said  
2        method including
  - 3            – [the] an extraction, during an extraction phase, of characteristic features from
  - 4            an acoustic signal captured by at least one microphone (2a, 2b), and
  - 5            – [the] an identification, during an identification phase, of the [transient]
  - 6            momentary acoustic scene on the basis of the extracted characteristics,
  - 7        [whereby] wherein at least auditory-based characteristics are identified during the extraction
  - 8        phase.
- 1        2. (amended) Method as in claim 1, [whereby] wherein, for the identification of the  
2        characteristic features during the extraction phase, Auditory Scene Analysis (ASA)  
3        techniques are employed.
- 1        3. (amended) Method as in claim 1 [or 2], [whereby] wherein, during the  
2        identification phase, Hidden Markov Model (HMM) techniques are employed for the  
3        identification of the [transient] momentary acoustic scene.
- 1        4. (amended) Method as in [one of the claims 1 to 3] claim 1, [whereby one of  
2        several] wherein at least one of the following auditory characteristics are identified during the  
3        extraction of said characteristic features: [Volume] loudness, spectral pattern, harmonic  
4        structure, common build-up and decay processes, coherent amplitude modulations, coherent  
5        frequency modulations, coherent frequency transitions and binaural effects.
- 1        5. (amended) Method as in [one of the preceding claims] claim 1, [whereby] wherein  
2        any other suitable characteristics are identified in addition to the auditory characteristics.

1           6. (amended) Method as [in one of the preceding claims] claim 1, [whereby, for the  
2 purpose of creating auditory objects], wherein the auditory and any other characteristics are  
3 grouped along [the principles of the gestalt] Gestalt theory principles.

1           7. (amended) Method as in claim 6, [whereby] wherein the extraction of  
2 characteristics and/or the grouping of the characteristics are[/is] performed either in context-  
3 free or in context-sensitive fashion [in the sense of human auditory perception], taking into  
4 account additional information or hypotheses relative to [the] a signal content and thus  
5 providing an adaptation to the [respective] acoustic scene.

1           8. (amended) Method as in [one of the preceding claims] claim 1, [whereby]  
2 wherein, during the identification phase, data are accessed which were acquired in an off-line  
3 training phase.

1           9. (amended) Method as in [one of the preceding claims] claim 1, [whereby] wherein,  
2 the extraction phase and the identification phase take place in continuous fashion or at regular  
3 or irregular time intervals.

1           10. (amended) Application of the method per one of the claims 1 to 9 for tuning a  
2 hearing device to a [transient] momentary acoustic scene.

1           11. (amended) Application as in claim 10, [whereby] wherein, on the basis of a  
2 detected [transient] momentary acoustic scene, a program or a transmission function between  
3 at least one microphone (2a, 2b) and a receiver (6) in the hearing device (1) is selected.

1           12. (amended) Application as in claim [9 or] 10, [whereby] wherein any other  
2 available function can be triggered in the hearing device (1) on the basis of the identified  
3 [transient] momentary acoustic scene.

1           14. (amended) Hearing device (1) with a transmission unit (4) whose input end is  
2 connected to at least one microphone (2a, 2b) and whose output end is functionally connected  
3 to a receiver (6), characterized in that [the] an input signal of the transmission unit (4) is

4 simultaneously fed to a signal analyzer (7) for [the] an extraction of at least auditory  
5 characteristics, that the signal analyzer (7) is functionally connected to a signal identifier unit  
6 (8) in which [the] a [transient] momentary acoustic scene is identified, and that the signal  
7 identifier unit (8) is functionally connected to the transmission unit (4) for the selection of a  
8 program or a transmission function.

1           17. (amended) Hearing device (1) as in claim [15 or] 16, characterized in that the user  
2 input unit (11) is functionally connected to the control unit (9).

1           18. (amended) Hearing device (1) as in [one of the claims 14 to 17] claim 14,  
2 characterized in that it is provided with suitable means serving to transfer parameters from a  
3 training unit (10) to the signal identifier unit (8).